

Application No.: 09/833452
Docket No.: AD6728USNA

EXHIBIT A

July 11, 1997

To: H. E. Lancaster

From: G. R. Chetosky

MWR 97-W-4
PRODUCTION OF BEXLOY® W 710 and 720 RESINS

Background

One of our customer's desires a blow molding resin. The customer was supplied a black version of this resin about a month ago. Now the customer desires colors. This MWR authorizes the production of two colored resin. In addition a different customer is interested in the high viscosity resin in a natural version. This resin will be similar to 710, but will not have mineral and will be known as 720 resin.

Request• Product General Descriptions

AXW710 PYG001

Surlyn® 9520	25.72%
Marlex 50100	60.26%
Surlyn® CS8749-5 (ZnO Concentrate)	0.73%
Platinum Concentrate (FM47354NMB)	4.00%
Irganox 1010	0.15%
Irganox B215	0.15%
Tinuvin 770DF	0.15%
Chimassorb 944FD	0.29%
Wollastonite NYGLOS 8	8.55%

AXW710 LTN001

Surlyn® 9520	25.72%
Marlex 50100	60.26%
Surlyn® CS8749-5 (ZnO Concentrate)	0.73%
Light Tan Concentrate (FM06022138NMB)	4.00%
Irganox 1010	0.15%
Irganox B215	0.15%
Tinuvin 770DF	0.15%
Chimassorb 944FD	0.29%
Wollastonite NYGLOS 8	8.55%

AXW720 NC010

Surlyn® 9520	29.00%
Marlex 50100	69.44%
Surlyn® CS8749-5 (ZnO Concentrate)	0.81%
Irganox 1010	0.15%
Irganox B215	0.15%
Tinuvin 770DF	0.15%
Chimassorb 944FD	0.30%

- Quantities and Timing - Quantities and timing to be determined by the Bexloy business (G. R. Chetosky) and Bexloy Product coordination (J. E. Kreggenwinkel). The first trial to be 3M of the 720 and 5M of each 710 grade in the July campaign.
- Packaging - The product should be packaged in 40 lb. bags or 1200 Lb. boxes per task from product coordination (J. E. Kreggenwinkel).

• Testing

AXW710 Resins

<u>Release</u>	<u>Process Limit</u>	<u>Sales Limit</u>
Ash Content(%)	TBD	10.0± 1.0
Melt Index	TBD	TBD
Moisture Content(%)	TBD	0.07 max.
Contamination	No Lim.-100-0	No Lim.-100-0
NUPS	2000-200-15	2000-200-15
CCU		Standard
Specific Gravity	TBD	

Characterization

Melt Temperature
 Specific Gravity Bar
 Tensile Strength at Yield
 Elongation at Yield
 Flexural Modulus
 Shear Modulus at 23 (once)
 Notched Izod at 23, -40
 Heat Deflection Temperature at 1.82 and 0.45 MPa
 Heat Aging for 1000 hrs
 Tensile at Yield
 Impact Strength
 Flammability (once)
 Fogging (once)
 Coefficient of Linear Thermal Expansion (once)
 Mold Shrinkage (Once).

Post Mold Shrinkage (Once)
 IR and DSC Scan (Once)
 Tear Strength
 Shore hardness
 Multiaxil for interior and exterior at -30
 UV1250XIDE
 UV2500XEDE
 Florida Weathering
 Retainer for lab at CMI and ISO Retainer for CMI lab

AXW720 Resin

	Process <u>Limit</u>	Sales <u>Limit</u>
<u>Release</u>		
Ash Content(%)	TBD	0.8± 0.4
Melt Index	TBD	TBD
Moisture Content(%)	TBD	0.07 max.
Contamination	No Lim.-100-0	No Lim.-100-0
NUPS	2000-200-15	2000-200-15
CCU		Standard
Specific Gravity	TBD	

Characterization

Melt Temperature
 Specific Gravity Bar
 Tensile Strength at Yield
 Elongation at Yield
 Flexural Modulus
 Shear Modulus at 23 (once)
 Notched Izod at 23, -40
 Heat Deflection Temperature at 1.82 and 0.45 MPa
 Heat Aging for 1000 hrs
 Tensile at Yield
 Impact Strength
 Flammability (once)
 Fogging (once)
 Coefficient of Linear Thermal Expansion (once)
 Mold Shrinkage (Once)
 Post Mold Shrinkage (Once)
 IR and DSC Scan (Once)
 Tear Strength
 Shore hardness
 Multiaxil for interior and exterior at -30
 UV1250XIDE
 UV2500XEDE

Florida Weathering
Retainer for lab at CMI and ISO Retainer for CMI lab

- Release - Material meeting the release limits should be released to finished product inventory, and Product Coordination (J. Kreggenwinkel) notified.
- Sampling - Sample each lot for the release and characterization testing.
- FDA and PMN Clearances - These compositions are blends of existing resins and does not require a PMN. These products should be added to the Bexloy W MSD sheet (BEX014).
- Customer Notification - These products have been developed for the customer and they are aware of the changes.

Approvals

Bexloy® Product Manager _____ Date _____

Manufacturing Consultant Harold P. Tinsley Date July 14, 1997